

## Laboratory

## **RICIN**

**Agent Overview:** A toxin is a specific product of the metabolic activities of a

living organism and is usually very unstable, notably toxic when introduced into the tissues and typically capable of inducing antibody formation. Ricin toxin is produced by the

castor bean Ricinus communis.

The Delaware Public Health Laboratory (DPHL) can test for Ricin using the Time-resolved fluorescence procedure (TRF)

and Real time Polymerase Chain Reaction (RT-PCR)

methods.

Lab Specimen Submittal: Authorization by Dr. Jane Getchell, DPHL director, Christina

Pleasanton, DPHL deputy director, or Dr. Jack Liou,

bioterrorism coordinator.

Type of specimens <u>Environmental testing</u>:

**Necessary for testing**: Plant material, paper, swabs, cotton, polyester (e.g. Dacron),

rayon, or foam swab. Wipes, non-cotton gauze, polyester blend (e.g. Handi-Wipes), Powder, water, soil, food and drink.

**Packaging instructions:** Environmental specimens must be double bagged and the

outside of the bag decontaminated (10% bleach).

Food or Drink specimens must be sent in leak-proof container

stored at 2-8°C.

Receiving specimens

at DPHL:

Authorized specimens are accepted at the back of the building

by the loading dock. Submitter must have ID. Proper forms

must be completed.

**Handling of Specimens:** Chain of custody procedures must be followed for

environmental samples or any samples, specimens and materials that could be used as evidence in a legal proceeding. Environmental samples are kept at room temperature and clinical specimens at refrigerator temperature (in a cooler, but

not frozen) until delivered to the laboratory.

**Reporting Results:** <u>Preliminary/Presumptive</u> – RT-PCR results are considered

preliminary and may take up to four hours after receipt of the

specimen.

Confirmation- A positive or negative TRF test result may take

up to 24 hours after the sample is received.

Contact Information: Jane Getchell, DrPH, DPHL director, 302-223-1520 (24/7)

coverage).

24/7 Emergency Contact Number: 1-888-295-5156

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